

Message Text

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PAGE 01 STATE 085171

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ORIGIN ERDA-07

INFO OCT-01 CIAE-00 COME-00 DODE-00 EB-07 NSAE-00 TRSE-00

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DRAFTED BY ERDA:JFKRATZ:ERS

APPROVED BY EB/ITP/EWT:RWPRACHT

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FM SECSTATE WASHDC

TO USMISSION OECD PARIS

C O N F I D E N T I A L STATE 085171

EXCON

E.O. 11652: XGDS-1

TAGS: ESTC, COCOM

SUBJECT: COCOM LIST REVIEW: IL 1131

REFS: A) OECD PARIS 5985

B) OECD PARIS 6100

C) COCOM DOC REV (74)1131/2

1) USDEL SHOULD RESPOND TO THE QUESTION RAISED BY THE
NETHERLANDS DEL REGARDING COVERAGE OF LIQUID SODIUM
PUMPS AS FOLLOWS:

2) USG AGREES THAT PRIMARY AND INTERMEDIATE COOLANT
PUMPS SPECIALLY DESIGNED FOR CIRCULATING LIQUID METAL,
SUCH AS SODIUM, AS THE PRIMARY OR INTERMEDIATE COOLANT
IN NUCLEAR REACTORS ARE COVERED BY AEL 36, AND NOT BY IL
1131(A). IT IS POSSIBLE THAT THE PUMPS DEFINED IN IL
1131(A) COULD BE LIQUID SODIUM PUMPS USED IN NUCLEAR
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PAGE 02 STATE 085171

REACTORS. HOWEVER, THIS IS DOUBTFUL SINCE THIS DEFINITION

DOES NOT CATCH ALL SUCH SODIUM REACTOR PUMPS, AND MOST REACTOR PUMPS BUILT TODAY FOR MOVING LIQUID SODIUM AS A COOLANT IN REACTORS ARE CENTRIFUGAL MECHANICAL PUMPS USING AN IMPELLER RATHER THAN ELECTROMAGNETIC FORCES. WHILE RESEARCH IS UNDER WAY ON DEVELOPING LARGE COOLANT REACTOR PUMPS FOR MOVING LIQUID METAL BY ELECTROMAGNETIC MEANS, MOST PUMPS OF THIS TYPE TODAY ARE USED FOR APPLICATIONS OTHER THAN THE NUCLEAR REACTORS AND ARE CHARACTERIZED BY LOW FLOW AND LOW EFFICIENCY.

3) IN SUMMARY, PUMPS COVERED BY IL 1131(A) SHOULD BE PUMPS USED IN CHEMICAL INDUSTRIES WHERE MOVEMENT OF MOLTEN METALS ARE REQUIRED, SUCH AS CESIUM, POTASSIUM, SODIUM FLASH POTASSIUM, OR MERCURY. PRIMARY AND INTER-MEDIATE COOLANT PUMPS DESIGNED TO MOVE LIQUID METAL FOR NUCLEAR REACTORS SHOULD BE COVERED BY AEL 36. KISSINGER

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